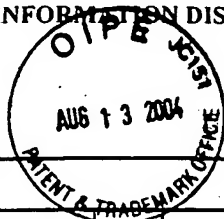


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INFORMATION DISCLOSURE STATEMENT



ATTORNEY DOCKET NO.: MFL-004

APPLICANT(S): Zheng *et al.*

SERIAL NO.: 10/791,218

FILING DATE: March 2, 2004

GROUP: 1732

## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	3,977,255	8-31-1976	Groleau et al.	73	865.9	
	A2	4,387,655	06-14-1983	Chaiken	110	347	
	A3	4,504,920	03-12-1985	Mickowski	702	183	
	A4	4,534,003	08-06-1985	Manzione	700	200	
	A5	4,641,270	02-03-1987	Lalloz et al.	700	98	
	A6	4,676,664	06-30-1987	Anderson et al.	374	136	
	A7	4,868,751	09-19-1989	Dogru et al.	702	12	
	A8	4,989,166	01-29-1991	Akasaka et al.	716	20	
	A9	5,031,108	07-09-1991	Fujita et al.	700	197	
	A10	5,031,127	07-09-1991	Fujita et al.	700	197	
	A11	5,035,598	07-30-1991	Fujita et al.	425	144	
	A12	5,072,782	12-17-1991	Namba	164	45	
	A13	5,097,431	03-17-1992	Harada et al.	703	9	
	A14	5,097,432	03-17-1992	Harada et al.	703	9	
	A15	5,146,086	09-08-1992	De et al.	250	253	
	A16	5,189,626	02-23-1993	Colburn	700	182	
	A17	5,311,932	05-17-1994	Sen et al.	165	109.1	
	A18	5,350,547	09-27-1994	Yamaguchi et al.	264	40.1	
	A19	5,377,119	12-27-1994	Backer et al.	700	146	
	A20	5,408,638	04-18-1995	Sagawa et al.	716	20	
	A21	5,543,093	08-06-1996	Nakamura et al.	264	40.5	
	A22	5,549,857	08-27-1996	Kamiguchi et al.	264	40.1	
	A23	5,572,434	11-05-1996	Wang et al.	700	197	
	A24	5,581,468	12-03-1996	White et al.	700	204	
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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE			
A25-A39	A25	5,700,406	12-23-1997	Menhennett et al.	264	40.4				
	A26	5,760,779	06-02-1998	Yamashita et al.	345	421				
	A27	5,811,133	09-22-1998	Saito et al.	423	145				
	A28	5,812,402	09-22-1998	Nishiyama	700	97				
	A29	5,835,379	11-10-1998	Nakano	700	197				
	A30	5,989,473	11-23-1999	Haverty	264	279				
	A31	6,021,270	02-01-2000	Hanaki et al.	703	7				
	A32	6,077,472	06-20-2000	Kataoka et al.	264	338				
	A33	6,089,744	07-18-2000	Chen et al.	703	2				
	A34	6,096,088	08-01-2000	Yu et al.	703	9				
	A35	6,161,057	12-12-2000	Nakano	700	197				
	A36	6,180,201	01-30-2001	Sandstrom	428	64.1				
	A37	6,192,327	02-20-2001	Nishiyama et al.	703	2				
	A38	6,248,103	06-19-2001	Tannenbaum et al.	606	3				
	A39	6,327,553	12-04-2001	Nishiyama et al.	703	2				
FOREIGN PATENT DOCUMENTS										
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N	
B1-B5	B1	AU-A-27152/95	02-15-1996	AU				N	Y	
	B2	721978	07-20-2000	AU				N	Y	
	B3	0 525 198 A1	02-03-1993	EP				N	Y	
	B4	0 698 467 A1	02-28-1996	EP				N	Y	
	B5	0 747 198 A2	12-11-1996	EP				N	Y	
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FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
A A A A A A A	B6	4305424	10-28-1992	JP				Y	Y
	B7	4331125	11-19-1992	JP				Y	Y
	B8	7125034	05-16-1995	JP				Y	Y
	B9	8-230007	09-10-1996	JP				Y	Y
	B10	337718	02-28-2000	NZ				N	Y
	B11	98/43179	10-01-1998	WO				N	Y
	B12	01/23163 A1	04-05-2001	WO				N	Y
OTHER ART, JOURNAL ARTICLES, ETC.									
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A A A A A A A A A	C1	Advani et al., "The Use of Tensors to Describe and Predict Fiber Orientation in Short Fiber Composites," <u>J. Rheol.</u> , 31(8):751-784 (1987).							
	C2	Angelloz et al., "Crystallization of Isotactic Polypropylene Under High Pressure ( $\gamma$ phase)," <u>Macromolecules</u> , 33:4138-4145 (2000).							
	C3	Avrami, "Kinetics of Phase Change, I. General Theory," <u>J. Chem. Phys.</u> , 7:1103-1112 (1939).							
	C4	Baaijens, "Calculation of Residual Stresses in Injection Molded Products," <u>Rheologica Acta</u> , 30:284-299 (1991).							
	C5	Batch, "3D Effects in Injection Molding Simulation," <u>ANTEC '94</u> , 1:547-553 (1994).							
	C6	Bathe, "Finite Element Procedures in Engineering Analysis," 407-428 (1982).							
	C7	Batoz et al., "A Discrete Shear Triangular Nine D.O.F. Element for the Analysis of Thick to Very Thin Plates," <u>International Journal for Numerical Methods in Engineering</u> , 28:533-560 (1989).							
	C8	Batoz et al., "Formulation and Evaluation of New Triangular, Quadrilateral, Pentagonal and Hexagonal Discrete Kirchhoff plate/shell Elements," <u>International Journal for Numerical Methods in Engineering</u> , 52:615-630 (2001).							
	C9	Begehr et al., "Hele-Shaw Type flows in R," <u>Nonlinear Analysis, Theory, Methods &amp; Applications</u> , Great Britain, 10(1):65-66 (1986).							
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A	C10	Begehr et al., "Non-Newtonian Hele-Shaw flows in $n \geq 2$ Dimensions," <u>Nonlinear Analysis, Theory, Methods &amp; Applications</u> , Great Britain, 11(1):17-18 (1987).	
A	C11	Belytschko, "Meshless Methods: An Overview and Recent Developments," <u>Computer Methods in Applied Mechanics and Engineering</u> (Special Issue on Meshless Methods), 139:3-77 (1996).	
A	C12	Bergan et al., "A Triangular Membrane Element with Rotational Degrees of Freedom," <u>Computer Methods in Applied Mechanics and Engineering</u> , 50(1):25-69 (1985).	
A	C13	Booij, "The Energy Storage in the Rouse Model in an Arbitrary Flow Field," <u>J. Chem. Phys.</u> , 80(9.1):4571-4572 (1984).	
A	C14	Brincat et al., "Contraction Pressure Loss; Influence of Temperature and Fibre Reinforcement," Swinburne University of Technology, Moldflow Pty. Ltd., and Sunkyoung Industries, Sorrento, Italy, 2 pgs. (1996).	
A	C15	Brooks et al., "Streamline Upwind/Petrov-Galerkin Formulations for Convection Dominated Flows with Particular Emphasis on the Incompressible Navier-Stokes Equations," <u>Computer Methods in Applied Mechanics and Engineering</u> , 32:199-259 (1982).	
A	C16	Bushman et al., "A Continuum Model for the Dynamics of Flow-Induced Crystallization," <u>J. Polym. Sci.: Part B: Polymer Physics</u> , 34:2393-2407 (1996).	
A	C17	Chaubal et al., "A Closure Approximation of Liquid Crystalline Polymer Models Based on Parametric Density Estimation," <u>J. Rheol.</u> , 42(1):177-201 (1998).	
A	C18	Chung et al., "Invariant-Based Optimal Fitting Closure Approximation for the Numerical Prediction of Flow-Induced Fiber Orientation," <u>J. Rheol.</u> , 46(1):169-194 (2002).	
A	C19	Coppola et al., "Microrheological Modeling of Flow-Induced Crystallization," <u>Macromolecules</u> , 34:5030-5036 (2001).	
A	C20	Costa et al., "An Adaptation of the Boundary Element Method for Modeling Gas Injection Molding," <u>Simulation of Materials Processing: Theory, Methods and Applications</u> , Rotterdam, The Netherlands, 1113-1118 (1995).	
A	C21	Costa et al., "Gas Injection Molding Simulation By the Boundary Element Method," Swinburne University of Technology and Moldflow Pty. Ltd., Melbourne, Australia, 11 pgs. (1994).	
A	C22	Daily et al., "Fluid Dynamics," 164-165, 180-185 (1966).	
A	C23	<del>Deanin, "Polymer Structure, Properties and Applications," pp. 162-185, 189-284, and 351-412.</del>	
A	C24	Deitz, "Optimizing injection-molded parts," <u>Mechanical Engineering</u> , 118(10):89-90 (1996).	
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R	C26	Doufas et al, "A Continuum Model for Flow-Induced Crystallization of Polymer Melts," <u>J. Rheol.</u> , 43(1):85-109 (1999).	
R	C27	Doufas et al., "Simulation of Melt Spinning Including Flow-Induced Crystallization. Part I. Model Development and Predictions," <u>J. Non-Newtonian Fluid Mech.</u> , 92:27-66 (2000).	
R	C28	Doufas et al., "Simulation of Melt Spinning Including Flow-Induced Crystallization. Part II. Quantitative Comparisons with Industrial Spinline Data," <u>J. Non-Newtonian Fluid Mech.</u> , 92:81-103 (2000).	
R	C29	Doufas et al., "Simulation of Melt Spinning Including Flow-Induced Crystallization. Part III. Quantitative Comparisons with PET Spinline Data," <u>J. Rheol.</u> , 45(2):403-419 (2001).	
<del>R</del>	<del>C30</del>	<del>Duarte, "A Review of Some Meshless Methods to Solve Partial Differential Equations," <u>TICAM Report 95-06</u>, 1-37.</del>	
R	C31	Eder et al, "Crystallization," H.E.H. Meijer (ed.), <u>Processing of Polymers</u> , Vol. 18 <u>Material Science and Technology: A Compressive Treatment</u> , Chapter 5, 269-342 (VCH, Weinheim, 1997).	
R	C32	Eder et al, "Crystallization Processes in Quiescent and Moving Polymer Melts Under Heat Transfer Conditions," <u>Progress in Polymer Science</u> , 15:629-714 (1990).	
R	C33	Fan, "Viscosity, First Normal-Stress Coefficient and Molecular Stretching in Dilute Polymer Solutions," <u>J. Non-Newtonian Fluid Mech.</u> , 17:125-144 (1985).	
R	C34	Fan et al., "Simulation of Fibre Suspension Flows by the Brownian Configuration Field Method," <u>J. Non-Newtonian Fluid Mech.</u> , 84:257-274 (1999).	
R	C35	Fan et al., "Warpage Analysis of Solid Geometry," <u>Society of Plastic Engineers Inc., ANTEC 2000 Conference Proceedings Volume I - Processing</u> , 723-726 (2000).	
R	C36	Feng et al., "Closure Approximations for the Doi Theory: Which to Use in Simulating Complex Flows of Liquid-Crystalline Polymers?" <u>J. Rheol.</u> , 42(5):1095-1119 (1998).	
R	C37	Friedl, "Progress Towards True 3D CAE Analysis for Injection Molding," Moldflow Pty. Ltd., 5 pgs. (1996).	
R	C38	Fulchiron et al, "Analysis of the Pressure Effect on the Crystallization Kinetics of Polypropylene: Dilatometric Measurements and Thermal Gradient Modeling," <u>J. Macromolecular Science - Physics</u> , 40:297-314 (2001).	
R	C39	"Getting Started with MF/Flow3D," Release 1.0.0, Moldflow Corporation, pp. i, ii, 1-84, (September 1998).	
R	C40	"Getting Started with Moldflow Plastics Insight," Release 1.0, Moldflow Corporation, pp. i, ii, 1-91, (June 1999).	
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A	C42	Guo et al., "Crystallinity and Microstructure in Injection Moldings of Isotactic Polypropylenes. Part I: A New Approach to Modeling and Model Parameters," <u>Polym. Eng. Sci.</u> , 39(10):2096-2114 (1999).	
A	C43	Haschke, "Predicting plastic part life. (the benefits of dynamic mechanical analysis, especially with polymers)," (August 23, 2001) at <a href="http://www.findarticles.com/cf_dls/m3125/16_73/78362412/pl/article.jhtml?term=">http://www.findarticles.com/cf_dls/m3125/16_73/78362412/pl/article.jhtml?term=</a>	
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A	C45	Hieber et al. "A Finite-Element/Finite-Difference Simulation of the Injection-Molding Filling Process," <u>Journal of Non-Newtonian Fluid Mechanics</u> , 7:1-32 (1980).	
A	C46	Hirt et al., "Volume of Fluid (VOF) Method for the Dynamics of Free Boundaries," <u>Journal of Computational Physics</u> , 39:201-225 (1981).	
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A	C48	Holman, "Heat Transfer," McGraw-Hill, Singapore, 136-139 (1989).	
A	C49	<del>"Installation Guide for Moldflow Plastics Insight," Release 1.0.1, Moldflow Corporation, pp. i, 1-73 (June 1999).</del>	
A	C50	Kennedy, "Flow Analysis of Injection Molds," Germany, entire book (1995).	
A	C51	Kennedy, "Governing Equations for the Filling Phase," <u>Flow Analysis of Injection Molds</u> , Hanser Publishers, Munich Vienna New York, 59-90 (1995).	
A	C52	Kennedy, et al., "Plastic Cae Analysis of Solid Geometry," <u>Antec '97</u> , 666-669 (1997).	
A	C53	Kolmogoroff, "On a Statistical Theory of Crystallization of Melts," <u>Bull. Akad. Sci. USSR, Class Sci., Math. Nat.</u> , 1:355-359 (1937).	
A	C54	Koscher et al., "Influence of Shear on Polypropylene Crystallization: Morphology Development and Kinetics," <u>Polymer</u> 43:6931-6942 (2002).	
A	C55	Krieger et al., "A Mechanism for Non-Newtonian Flow in Suspensions of Rigid Spheres," <u>Trans. Soc. Rheol.</u> , 3:137-152 (1959).	
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<i>AD</i>	C61	<del>Metzner, "Rheology of Suspensions in Polymer Liquid," <i>J. Rheol.</i>, 29(6):739-775 (1985).</del>	
<i>AD</i>	C62	<del>"Moldflow Design Principles," Moldflow Corporation, pp. cover, i-vi, 1-55 (1984).</del>	
<i>AD</i>	C63	<del>Mori et al., "Simplified Three Dimensional Simulation of Non-Isothermal Filling in Metal Injection Moulding by Finite Element Method," Engineering computations, 1996.</del>	
<i>AD</i>	C64	<del>Painter et al., <i>Fundamentals of Polymer Science an Introductory Text - Second Edition</i>, pp. 237-257; 259-274; 279-305; 321- 336; and 395-469.</del>	
<i>AD</i>	C65	<del>Pantani et al., "Relevance of Crystallisation Kinetics in the Simulation of the Injection Molding Process," <i>Int. Polym. Process.</i>, 16:61-71 (2001).</del>	
<i>AD</i>	C66	<del>Peters, et al., "A Recoverable Strain-Based Model for Flow-Induced Crystallization," <i>Macromol. Symp.</i>, 185:277-292 (2002).</del>	
<i>AD</i>	C67	<del>Phan-Thien et al., "Macroscopic Modelling of the Evolution of Fibre Orientation During Flow," <i>Flow-Induced Alignment In Composite Materials</i>, Chapter 3, 77-111 (1997).</del>	
<i>AD</i>	C68	<del>Prandtl, "Essentials of Fluid Dynamics," pp. 150-151 (1967).</del>	
<i>AD</i>	C69	<del>Rajupalem et al., "Three-Dimensional Simulation Of The Injection Molding Process," Moldflow Pty. Ltd., 4 pgs. (1997).</del>	
<i>AD</i>	C70	<del>Ray et al., "Incorporation of Viscoelastic Constitutive Equations in the Injection Molding Process," Industrial Research Institute Swinburne and Moldflow Pty. Ltd., Cairns, Australia, 10 pgs. (September 1997).</del>	
<i>AD</i>	C71	<del>Ray et al., "Three Dimensional Simulation of Viscoelastic Constitutive Equations Using a Segregated Finite Element Scheme," Industrial Research Institute Swinburne and Moldflow Pty. Ltd., Adelaide, Australia, 4 pgs. (July 1998).</del>	
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	C74	Richardson, "Hele Shaw Flows With a Free Boundary Produced by the Injection of Fluid into a Narrow Channel," <u>J. Fluid Mech.</u> , 56(4):609-618 (1972).	
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	C76	Stattary, "Momentum, Energy, and Mass Transfer in Continua," 98-99 (1972).	
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	C82	Tanner, "Stresses in Dilute Solutions of Bead-Nonlinear-Spring Macromolecules, II. Unsteady Flows and Approximate Constitutive Relations," <u>Trans. Soc. Rheol.</u> , 19(1):37-65 (1975).	
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	C85	Voller et al., "An Algorithm for Analysis of Polymer Filling of Molds," <u>Polymer Engineering and Science</u> , 35(22):1758-1765 (1995).	
	C86	Walsh, "Shrinkage and Warpage Prediction for Injection Molded Components," <u>Journal of Reinforced Plastics and Composites</u> , 12:769-777 (1993).	
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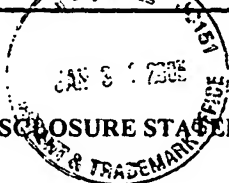
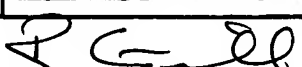


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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MFL-004 APPLICANT(S): Zheng <i>et al.</i> SERIAL NO.: 10/791,218 FILING DATE: March 2, 2004 GROUP: 1732					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
R	A40	6,136,235	10/24/2000	Saito <i>et al.</i>	264	40.1	07/01/1998		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
R	B13	09262887	10/07/1997	JP				Y	Y (Abstract Only)
R	B14	10138312	05/26/1998	JP				Y	Y (Abstract Only)
R	B15	10156885	06/16/1998	JP				N	Y (Abstract Only)
R	B16	2002219739	08/06/2002	JP				N	Y (Abstract Only)
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
B	C98	<del>Bird <i>et al.</i>, Dynamics of Polymeric Liquids, 2<sup>nd</sup> ed. Vol. 2, John Wiley &amp; Sons, New York (1987).</del>							
R	C99	Guo <i>et al.</i> , "Numerical Simulation of Injection Molding of Semicrystalline Thermoplastics," <u>Antec, Plastic the Lone Star 2001</u> , 1:1-5 (2001).							
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R	C101	Liu, "Isothermal Flow Simulation of Liquid Composite Molding," <u>Composites, Part A</u> 31:1295-1302 (2000).							
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B	C104	<del>Tanner, "Engineering Rheology, 2<sup>nd</sup> ed.," Oxford University Press, London (2000)</del>							
R	C105	Zheng <i>et al.</i> , "A Model for Post-Flow Induced Crystallization: General Equations and Predictions," <u>The Society of Rheology, Inc.</u> , 48(4):823-842 (2004).							
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R	C107	International Search Report for International Application No. PCT/US2004/006256, dated August 16, 2004 (6 pages).							
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U.S. PATENT DOCUMENTS											
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPROPRIATE			
FOREIGN PATENT DOCUMENTS											
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N		
OTHER ART, JOURNAL ARTICLES, ETC.											
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)										
R	C108	Acierno <i>et al.</i> , "Effect of Molecular Weight on the Flow-Induced Crystallization of Isotactic Poly(1-butene)," <u>Rheol. Acta</u> , 42:243-250 (2003).									
R	C109	Boutahar <i>et al.</i> , "Crystallization of Polyolefins from Rheological Measurements-Relation between the Transformed Fraction and the Dynamic Moduli," <u>Macromolecules</u> , 31:1921-1929 (1998).									
A	C110	Duplay <i>et al.</i> , "Shear-Induced Crystallization of Polypropylene: Influence of Molecular Weight," <u>J. Mater. Sci.</u> , 35:6093-6103 (2000).									
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A	C113	Kumaraswamy <i>et al.</i> , "Shear Enhanced Crystallization in Isotactic Polypropylene. 1. Correspondence Between in situ rheo-optics and ex situ Structure Determination," <u>Macromolecules</u> , 32:7537-7547 (1999).									
A	C114	Mendoza <i>et al.</i> , "Spatial Distribution of Molecular Orientation In Injection Molded iPP: Influence of Processing Conditions," <u>Polymer</u> , 44:3363-3373 (2003).									
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A	C116	Swartjes, "Stress Induced Crystallization in Elongational Flow," (Ph.D. Thesis, Technical University of Eindhoven, the Netherland, 2001).									
R	C117	Tanner, "On the Flow of Crystallizing Polymers, I. Linear Regime," <u>J. Non-Newtonian Fluid Mech.</u> , 112:251-268 (2003).									
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<b>U.S. PATENT DOCUMENTS</b>									
<b>EXAM. INIT.</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUB CLASS</b>	<b>FILING DATE IF APPROPRIATE</b>		
R	A41.	5,677,846	10/14/1997	Kumashiro	716	20			
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<b>EXAM. INIT.</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>COUNTRY CODE</b>	<b>CLASS</b>	<b>SUB CLASS</b>	<b>FILING DATE</b>	<b>ABSTRACT ONLY</b>	<b>ENGLISH LANG Y/N</b>
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>									
<b>EXAM. INIT.</b>	<b>OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>								
ADAD	C119.	Cignoni <i>et al.</i> , "Multiresolution Representation and Visualization of Volume Data," <u>IEEE Transactions on Visualization and Computer Graphics</u> , Vol. 3, No. 4, pp. 352-369 (1997).							
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